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25 June 1968

AUTOMATED MAPPING DIVISION
Special Projects Branch

TRIP REPORT

TASK NO: 4A635101D85507

PURPOSE OF VISIT: To review the test procedures employed by ☐ in testing the Auxiliary Data Reader (ADR) and the test results.

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DATE OF VISIT AND LOCATION: 18 June 1968 - ☐

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INDIVIDUALS CONTACTED: ☐

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SUMMARY: As previously stated the purpose of this trip was to review the test procedures employed by ☐ and the test results. A final report will be forthcoming in approximately one month; therefore, only the most salient test results will be stated in this trip report; these results follow:

a. The error rate was established at 5% or less based on repeated readings totaling approximately 600,000 data blocks.

b. The unit successfully read data blocks having a dot density range exceeding the design specifications.

c. Film tracking was excellent but the film transport rollers scratched the films. This is not desirable and can possibly be corrected by re-surfacing the rollers; however, it is not too serious as a specially developed dupe is prepared for the ADR use and any additional usage is secondary. The scratching was not apparent during the preliminary acceptance test.

d. The unit adequately handled films with data blocks having a skewness within design specifications.

e. The error rate was less when the films were read in the reverse direction as compared to the forward direction. Also the error rate was less for negative than for positive materials.

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f. It was necessary for ☐ to install a voltage regulator in the projection lamp circuitry for maintaining a constant intensity; otherwise, the error rate would increase.

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[REDACTED]

g. The commercial tape unit component of the ADR over heated in an ambient temperature in excess of 85°F. When the back of the unit was opened to provide increased ventilation, the unit work satisfactorily. It is anticipated that the unit will be installed in an environmental control of 72°F \pm 5°F such as APPL or [REDACTED]

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h. Human engineering design was considered adequate.

The ADR will require some repair and modification when installed for production use:

a. The potentiometer associated with the photo amplifier needs replacing.

b. A Winchester plug (cabinet screw) on the console needs replacing.

c. Magnetic tape transport needs modification to prevent continuous incremental displacement, without stopping and restarting the ADR.

d. Magnetic tape reader needs plastic rings for magnetic tape deck.

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CONCLUSION: It is concluded that [REDACTED] will fulfill their agreement to furnish ETL with test data and that the report is in sufficient detail to serve as a substitute for an ETL engineer test report.

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ACTION: [REDACTED] is awaiting a shipping address for the ADR.

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[REDACTED]

Special Projects Branch

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